(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 21 July 2005 (21.07.2005)

PCT

(10) International Publication Number WO 2005/067330 A1

(51) International Patent Classification⁷: 7/38, G01S 5/00, 1/00

H04Q 7/32,

(21) International Application Number:

PCT/IB2004/004298

(22) International Filing Date:

29 December 2004 (29.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0330192.6

30 December 2003 (30.12.2003) GB

(71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).

(72) Inventors; and

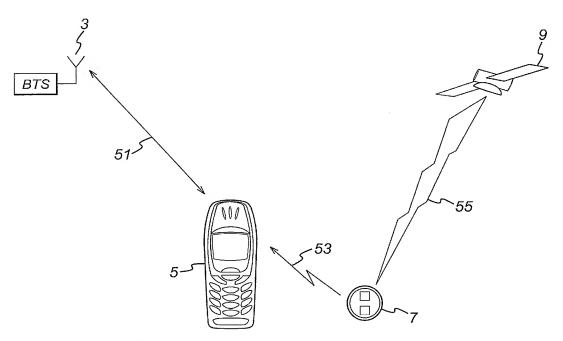
(75) Inventors/Applicants (for US only): KERAI, Kanji [GB/GB]; 1 Boycroft Avenue, Kingsbury, London NW9

8AH (GB). **NICHOLS, Robert** [GB/GB]; 3 Oldfield View, Hartley Wintney, Hook RG29 8SH (GB). **SCALES, James** [GB/GB]; Cadomin, Wards Cross, Hurst, Berkshire RG10 0DS (GB). **LEINONEN, Marko, E.** [FI/FI]; Rantapellontie 1 C 9, FIN-90520 Oulu (FI).

- (74) Agents: SLINGSBY, Philip, Roy et al.; Page White & Farrer, 54 Doughty Street, London WC1N 2LS (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: A GPS DEVICE



(57) Abstract: A combination of a GPS device and an adjacent mobile communications device. The mobile communications device comprises: a wireless communications transceiver comprising means for receiving at least one of timing information and location information. The GPS device comprises: a receiver for receiving at least one GPS signal, a positional estimator for providing a positional estimate in dependence of said received at least one GPS signal and said at least one of timing information and location information.

WO 2005/067330 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.